

Basic Information

Product Name	Anti-TIMP2 Antibody
Gene Name	TIMP2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human TIMP2 recombinant protein (Position: C27-P220). Human TIMP2 shares 98.5% amino acid (aa) sequence identity with both mouse and rat TIMP2.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	22 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

TIMP metalloproteinase inhibitor 2, a tissue inhibitor of metalloproteinases, also known as TIMP2, is a human gene, thought to be a metastasis suppressor. This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix.

Reference

Anti-TIMP2 Antibody被引用在10文献中。

Selected Validation Data



Western blot analysis of TIMP2 using anti-TIMP2 antibody (PB0875). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat spleen tissue lysates,

Lane 2: Rat testis tissue lysates,

Lane 3: Mouse brain tissue lysates,

Lane 4: Mouse thymus tissue lysates,

Lane 5: HELA whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-TIMP2 antigen affinity purified polyclonal antibody (PB0875) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for TIMP2 at approximately 22 kDa. The expected band size for TIMP2 is at 24 kDa.